

Rabbit anti-Human, Rat p47 phox Polyclonal Antibody | anti-NCF1 antibody

Phospho-p47 phox (Ser359) Antibody

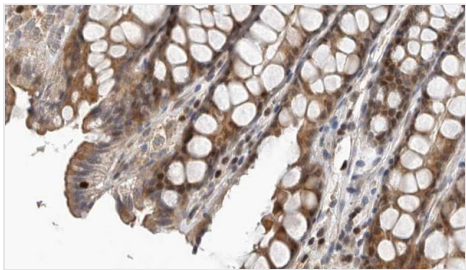
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321522	Rabbit	Human, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

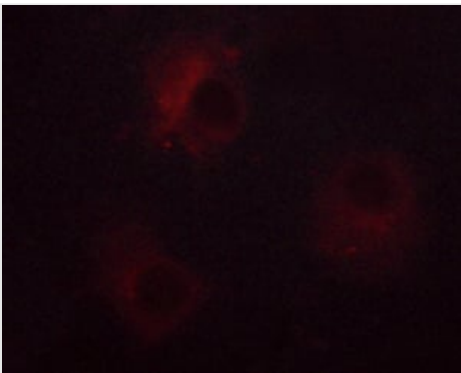
p47 phox; Polyclonal Antibody; Phospho-p47 phox (Ser359) Antibody; 47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NADPH oxidase organizer 2; NCF 47K; NCF-1; NCF-47K; Ncf1; NCF1_HUMAN; Neutrophil cytosol factor 1; Neutrophil cytosolic factor 1; neutrophil cytosolic factor 1; (chronic granulomatous disease; autosomal 1); Neutrophil NADPH oxidase factor 1; Nox organizer 2; Nox organizing protein 2; Nox-organizing protein 2; NOXO2; p47-phox; SH3 and PX domain containing protein 1A; SH3 and PX domain-containing protein 1A; SH3PXD1A; anti-NCF1 antibody

PRODUCT SPECIFICATIONS

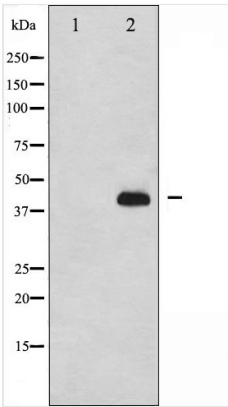
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-p47 phox (Ser359) antibody detects endogenous levels of p47 phox only when phosphorylated at Serine 359
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	390
Applicable Applications for anti-NCF1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human p47 phox around the phosphorylation site of Serine 359
Subcellular Location	Cytoplasm.
Tissue Specificity	Detected in peripheral blood monocytes and neutrophils (at protein level).
Conjugation	Unconjugated
Epitope	Phospho Ser359
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



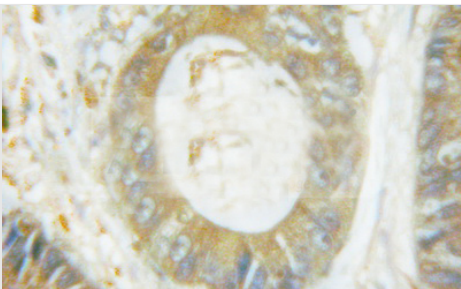
IHC (Immunohistochemistry)
AAA321522 at 1/100 staining Rat colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA321522 staining RL cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



WB (Western Blot)
Western blot analysis of p47 phox phosphorylation expression in nocodazole treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
AAA321522 at 1/100 staining human colon carcinoma tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours

ADDITIONAL INFORMATION

Related Product Information for anti-NCF1 antibody	Description: The 47-kilodalton cytosolic subunit of the multi-protein complex known as NADPH oxidase is found in neutrophils. The holo-oxidase produces a burst of superoxide which is delivered to the lumen of the neutrophil phagosome. Contains 2 SH2 domains. Function: NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production). Subunit Structure: Component of an NADPH oxidase complex composed of a heterodimer formed by the membrane proteins CYBA and CYBB and the cytosolic subunits NCF1, NCF2 and NCF4. Interacts (via C-terminus) with NCF2 (via the C-terminal SH3 domain). Interacts with NCF4. Interacts with CYBB. Interacts (via the second SH3 domain) with CYBA. Interacts with NOXA1. Interacts with ADAM15. Interacts with TRAF4. Interacts with FASLG. Interacts with PARK7 (via C-terminus); the interaction is enhanced by LPS and modulates NCF1 phosphorylation and membrane translocation (By similarity). Post-translational Modifications: Phosphorylated by PRKCD; phosphorylation induces activation of NCF1 and NADPH oxidase activity. Similarity: The PX domain mediates interaction with phosphatidylinositol 3, 4-bisphosphate and other anionic phospholipids. In the autoinhibited, unphosphorylated state an intramolecular interaction with the C-terminal SH3 domain precludes phospholipid binding and interaction with CYBA. Phosphorylation disrupts the autoinhibited state.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	528078313
NCBI GeneID	653361

NCBI Accession #	NP_000256.4
NCBI GenBank Nucleotide #	NM_000265.5
UniProt Accession #	P14598 ; O43842 ; Q2PP07 ; Q53FR5 ; Q9BU90 ; Q9BXI7 ; Q9BXI8 ; Q9UDV9 ; Q9UMU2 ; A6NEH2 ; A8K7S9
Molecular Weight	Observed: 45 kDa Predicted: 45 kDa
NCBI Official Full Name	neutrophil cytosol factor 1
NCBI Official Synonym Full Names	neutrophil cytosolic factor 1
NCBI Official Symbol	NCF1
NCBI Official Synonym Symbols	NCF1A; NOXO2; p47phox; SH3PXD1A
NCBI Protein Information	neutrophil cytosol factor 1
UniProt Protein Name	Neutrophil cytosol factor 1
UniProt Gene Name	NCF1
UniProt Synonym Gene Names	NOXO2; SH3PXD1A; NCF-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/p47-phox-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321522>